

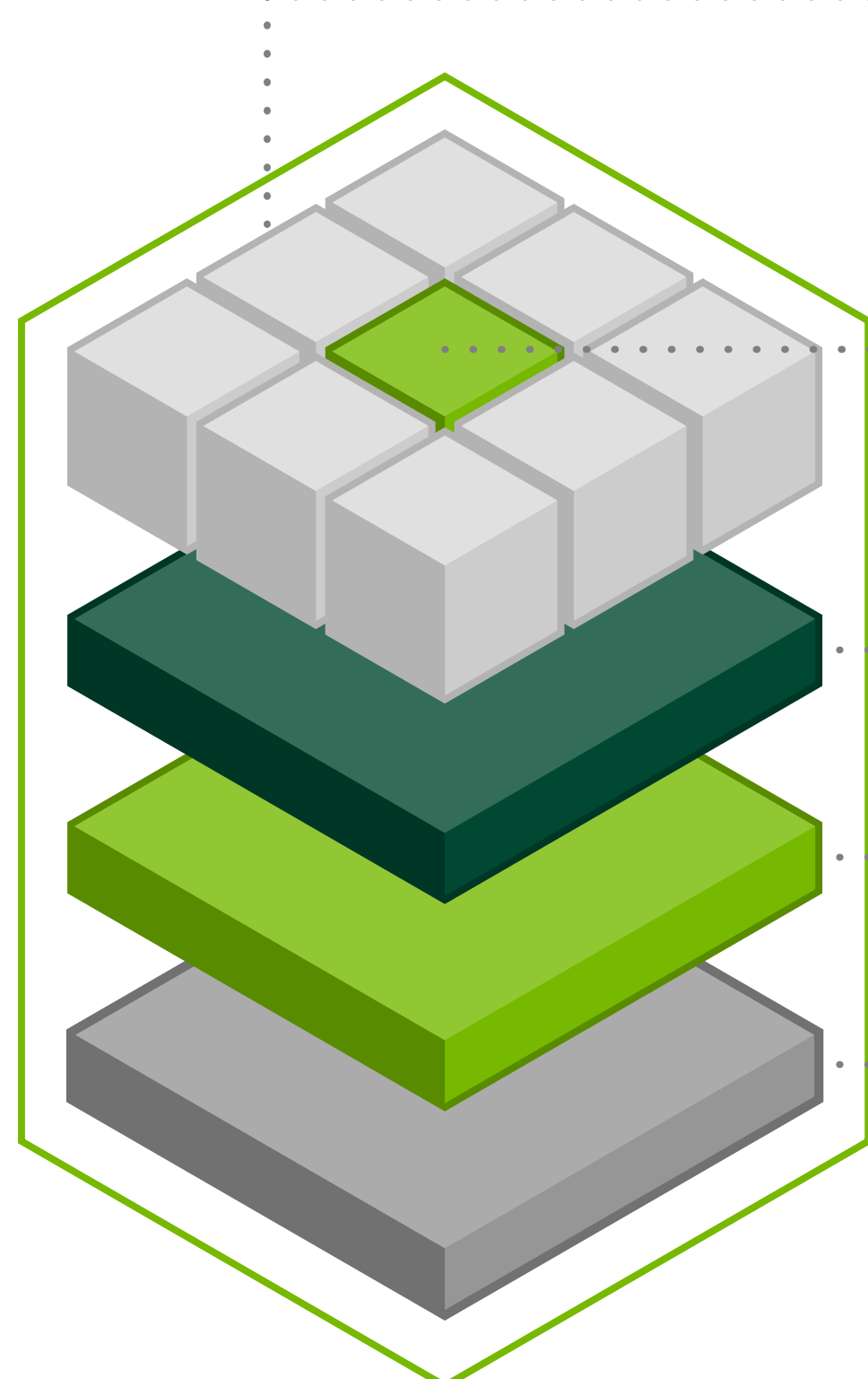
# NVIDIA® DGX™

## ESSENTIAL INSTRUMENT OF AI RESEARCH



### A TRUE TURNKEY SOLUTION

FULLY INTEGRATED SOFTWARE AND HARDWARE



#### DEEP LEARNING FRAMEWORKS

Caffe Caffe2 TensorFlow mxnet theano PYTORCH torch

#### DEEP LEARNING USER SOFTWARE

NVIDIA DIGITS™

#### CONTAINERIZATION TOOL

NVIDIA Container Runtime for Docker

#### GPU DRIVER

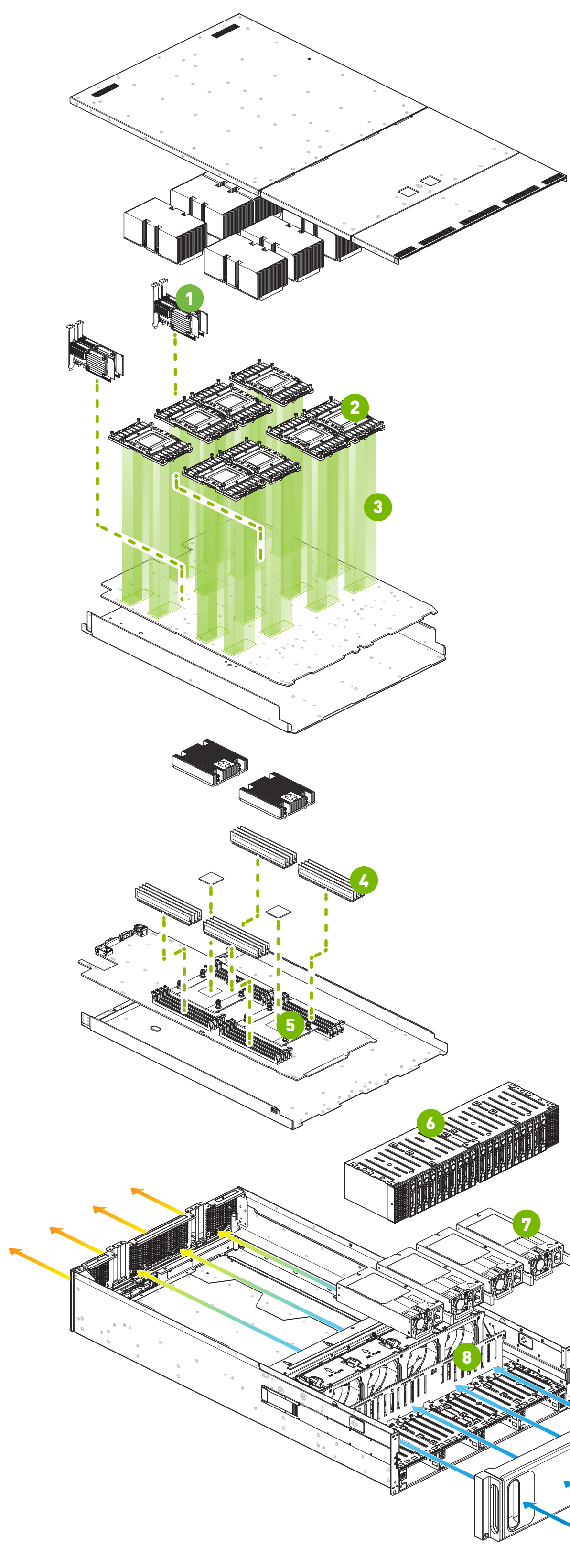
NVIDIA Driver

#### SYSTEM

Host OS

### SOFTWARE

### HARDWARE



#### 1. NETWORK INTERCONNECT

4X InfiniBand 100 Gbps EDR  
2X 10 GbE

#### 2. GPUs

8X NVIDIA Tesla® V100 32 GB/GPU  
40,960 Total NVIDIA CUDA® Cores  
5,120 Tensor Cores

#### 3. GPU INTERCONNECT

NVIDIA NVLink™  
Hybrid Cube Mesh

#### 4. SYSTEM MEMORY

512 GB DDR4 RDIMM

#### 5. CPUs

2X 20-Core Intel® Xeon®  
E5-2698 v4 2.2 GHz

#### 6. STREAMING CACHE

4X 1.92 TB SSDs RAID 0

#### 7. POWER

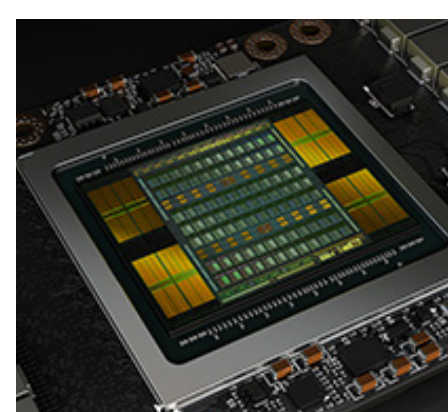
4X 1600 W PSUs  
(3500 W TDP)

#### 8. COOLING

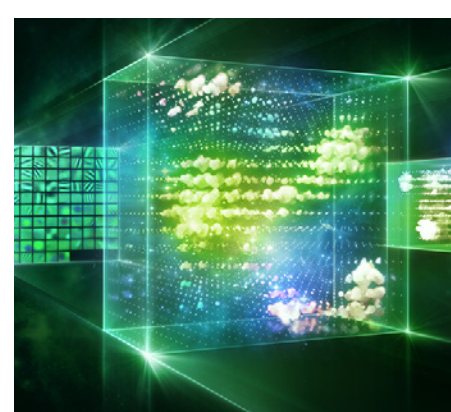
Efficient Front-to-Back  
Airflow

### POWERED BY 8 NVIDIA TESLA V100 GPUs

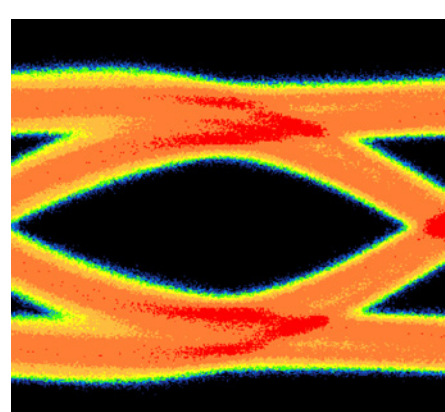
BUILT ON THE LATEST NVIDIA VOLTA™ GPU ARCHITECTURE



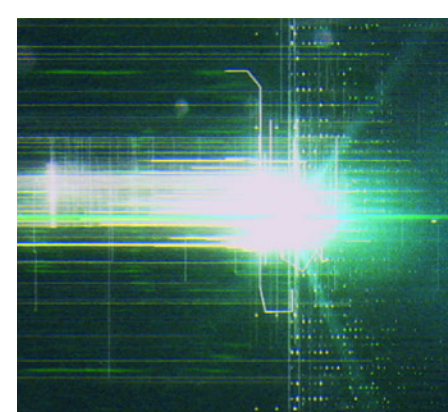
The power of  
800 x86 CPUs



3X deep learning  
training speed-up



10X speed-up  
with NVLink™ vs PCIe

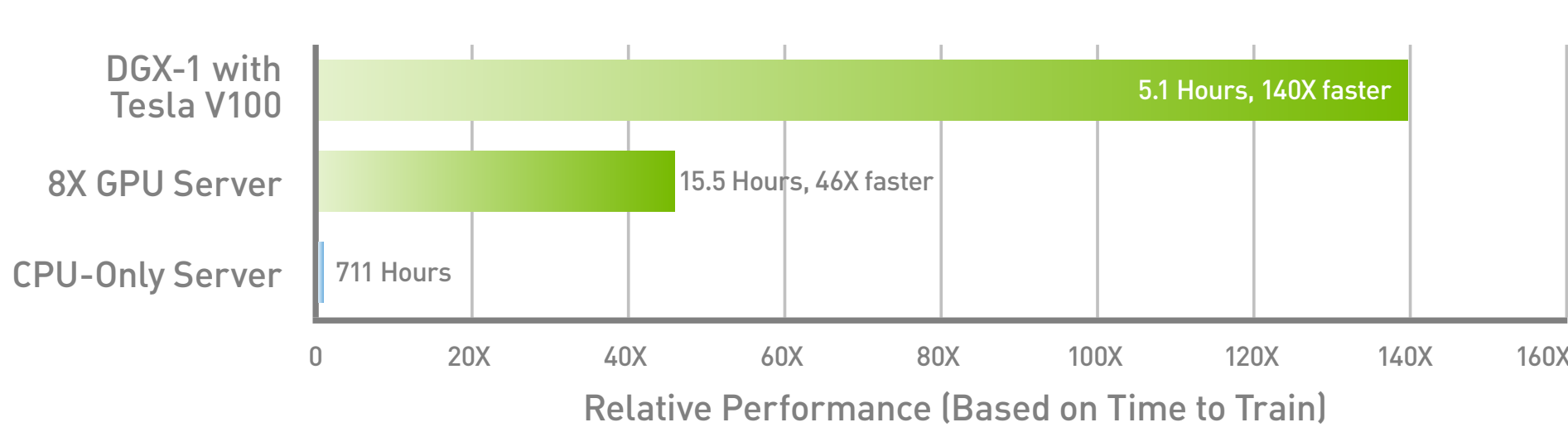


30% faster  
performance with  
DGX software stack

### ITERATE AND INNOVATE FASTER

UNPARALLELED DEEP LEARNING TRAINING PERFORMANCE

#### NVIDIA DGX-1 Delivers 140X Faster Deep Learning Training



### EFFORTLESS PRODUCTIVITY

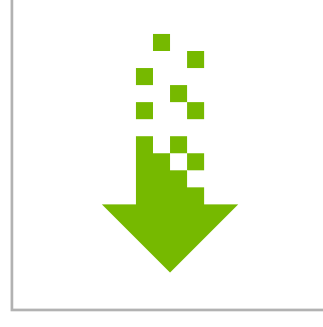
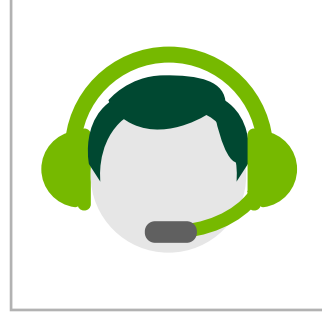
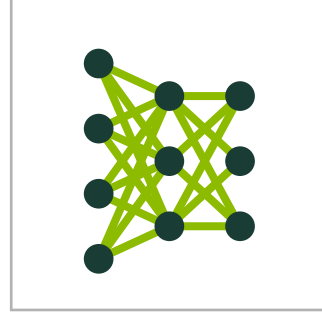
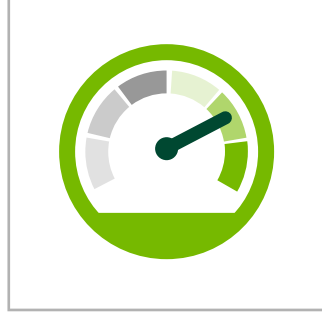
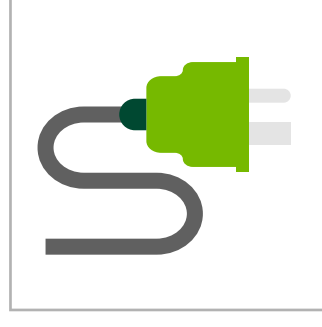
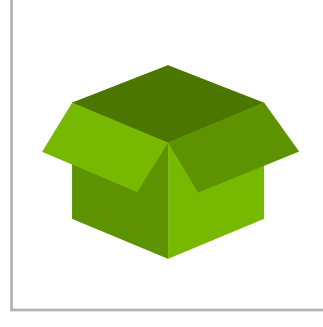
GET STARTED IN AS LITTLE AS 2 HOURS WITH NVIDIA DGX

#### DEPLOY QUICKLY AND SIMPLY

Plug-and-play setup that takes you from power-on to deep learning in minutes

#### NVIDIA GPU CLOUD AND SUPPORT

Access to NVIDIA's vast deep learning knowledge, expertise, and the latest software updates



## Accelerate Your Deep Learning Today

[www.nvidia.com/dgx-server](http://www.nvidia.com/dgx-server)